

A method supplies a dynamic vector map of properties within a region or a unified suite of quantification functionality for property functions, such as density functions, conduction functions (e.g., thermal conduction, electrical conduction, atomic or subatomic mass conduction, macromolecular mass conduction), defined on, defined in or defining a three-dimensional space, which functions may optionally vary in time. There should be at least two services assisting in the definition of the map or suite, even in a dynamic modality, selected from: (a) Computation of the volume of the region where the density lies above or below a specified threshold, or between two specified values; (b) Computation of the integral of the density (that is, determining a total amount of Estimation of the rate of change of the density material within the region); (c) with respect to time, optionally restricted to a specified region. The rate may be with respect to any property such as concentration changes, conductivity rates, temperature changes, optical density changes, viscosity changes, or any other observable property; (d) Estimation of the local or global failure of conservation represented by changes with time in the density, whether or not the Estimation of the local method is given an implemented transport model; (e) or global rate at which material with a changing density is passing through a specified surface (e.g., boundary), whether or not the method is provided with an Separation of the density of a material with a implemented transport model; (f) changing density, given an implemented transport model, into "free" and "bound" densities.